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AI in Lean Six Sigma Deployment

Course No. 535

AI (artificial Intelligence) is important because it transforms how we live, work, and solve problems. Lean Six Sigma has long been the gold standard for process excellence and operational efficiency. With the integration of AI, organizations can take continuous improvement initiatives to a new level- enabling faster insights, predictive analytics, and intelligent automation.

Course Benefits

This course provides participants with the knowledge and skills to leverage AI technologies within Lean Six Sigma frameworks to drive data-driven decision-making, enhance process optimization, and maximize business value.

Prerequisites

Basic understanding of Lean Six Sigma concepts (DMAIC, process improvement, quality tools) and familiarity with data analysis; AI/ML knowledge helpful but not required.

Duration

Four Days (28 hours)

Learning Objectives

At the end of this course, attendees will be able to:

1. Understand how AI enhances Lean Six Sigma methodologies
2. Apply AI tools for data collection, analysis, and visualization in DMAIC projects
3. Use predictive analytics and machine learning models to identify process improvement opportunities
4. Integrate AI for real-time process monitoring and control
5. Develop strategies to automate repetitive Lean Six Sigma task
6. Drive innovation and scalability in operational excellence initiatives using AI

Topics Covered:

- Introduction to AI & Lean Six Sigma integration
- The role of AI in the DMAIB framework
- AI-driven data collection & cleaning
- Machine learning in root cause analysis
- Predictive & prescriptive analytics for process optimization
- AI-powered control systems & dashboards
- Automating Lean Six Sigma processes with AI tools
- Case studies: Successful AI + Lean Six Sigma Deployments
- Challenges, risks, and ethical considerations



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Who Should Attend?

This course is ideal for Lean Six Sigma professionals, process improvement & quality managers, business analysts and data scientists, operations, manufacturing, and service leaders, or any professional seeking to integrate AI into continuous improvement strategies.

Instructor

The instructor is a professional with 10+ years of AI experience.

For More Information:

Contact Training administrator: Training@qpsinc.com , Telephone: (508) 786-0777